ALCF Service Offerings

INCITE 2010 Getting Started Workshop
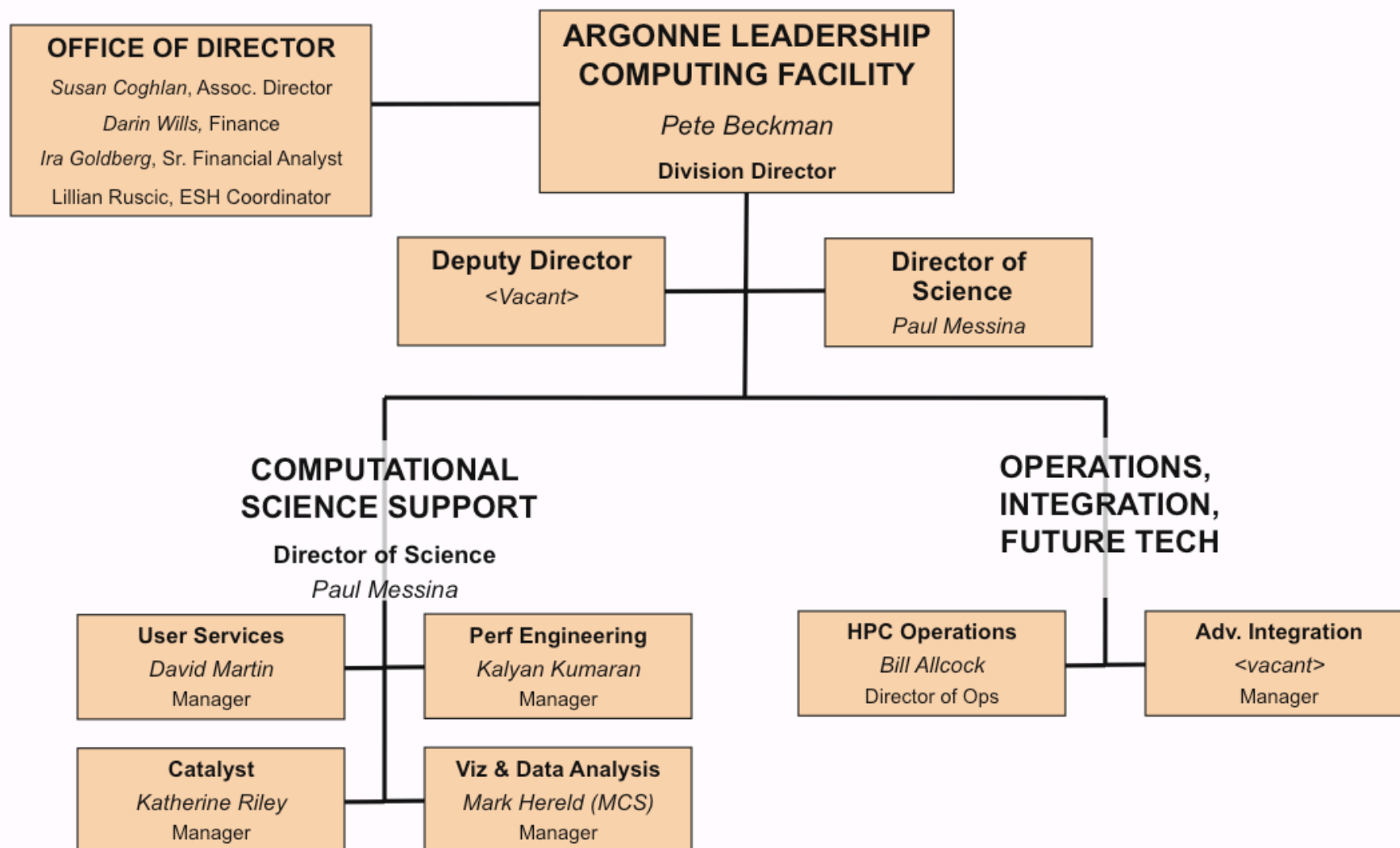
David E. Martin

Manager, User Services and Outreach
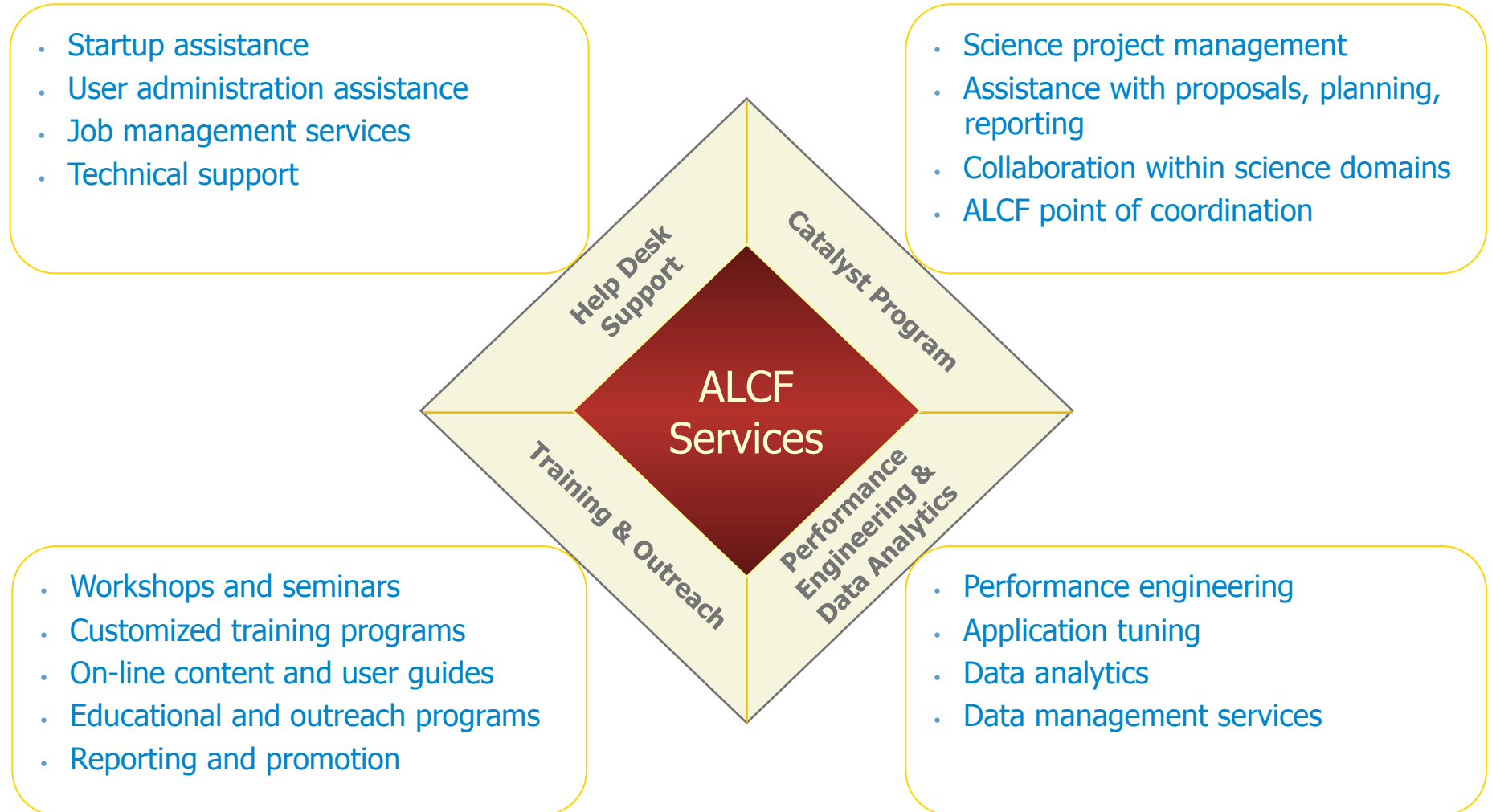
dem@alcf.anl.gov

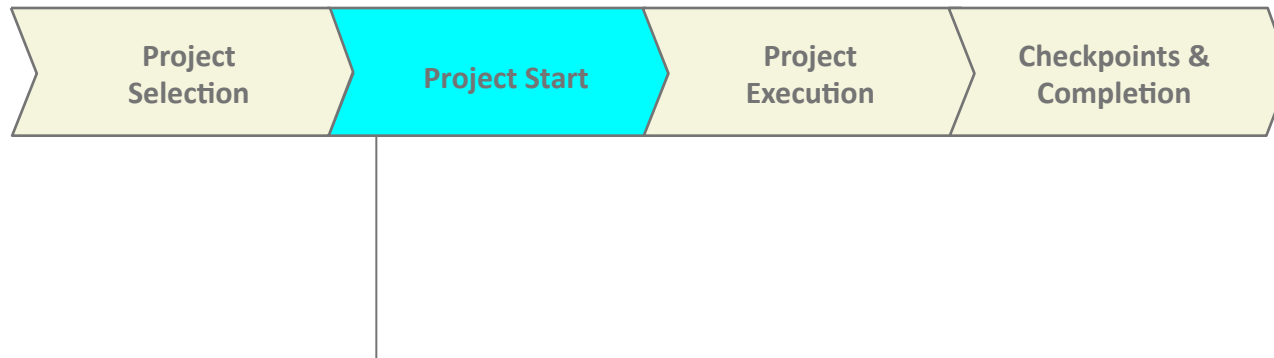January 27, 2010
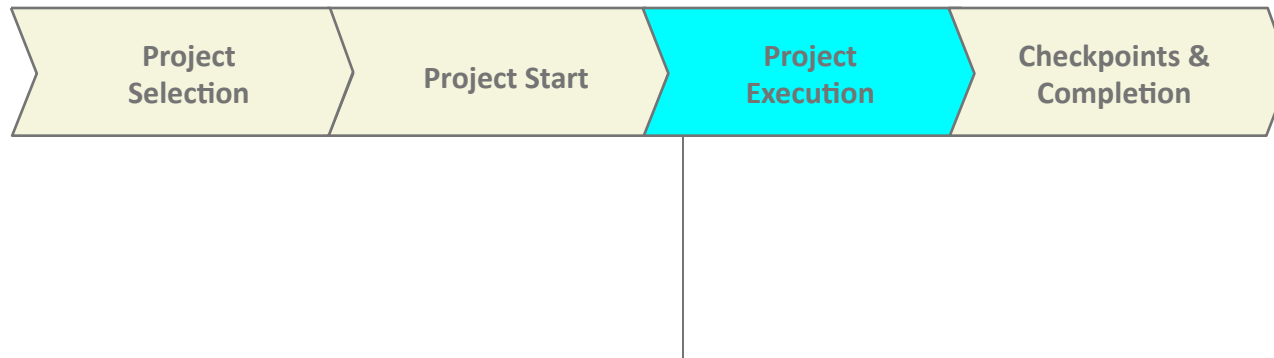
ALCF Organizational Structure

OFFICE OF DIRECTOR

Susan Coghlan, Assoc. Director

Darin Wills, Finance

Ira Goldberg, Sr. Financial Analyst

Lillian Ruscic, ESH Coordinator

ARGONNE LEADERSHIP COMPUTING FACILITY

Pete Beckman

Division Director

Deputy Director

<Vacant>

Director of Science

Paul Messina

COMPUTATIONAL SCIENCE SUPPORT

Director of Science

Paul Messina

User Services

David Martin

Manager

Perf Engineering

Kalyan Kumaran

Manager

Catalyst

Katherine Riley

Manager

Viz & Data Analysis

Mark Hereld (MCS)

Manager

OPERATIONS, INTEGRATION, FUTURE TECH

HPC Operations

Bill Allcock

Director of Ops

Adv. Integration

<vacant>

Manager

INCITE 2010 Getting Started Workshop

Integrated Services for INCITE Projects

- Startup assistance
- User administration assistance
- Job management services
- Technical support

- Science project management
- Assistance with proposals, planning, reporting
- Collaboration within science domains
- ALCF point of coordination

Help Desk Support

Catalyst Program

ALCF Services

Training & Outreach

Performance Engineering & Data Analytics

- Workshops and seminars
- Customized training programs
- On-line content and user guides
- Educational and outreach programs
- Reporting and promotion

- Performance engineering
- Application tuning
- Data analytics
- Data management services

ALCF Services - Start

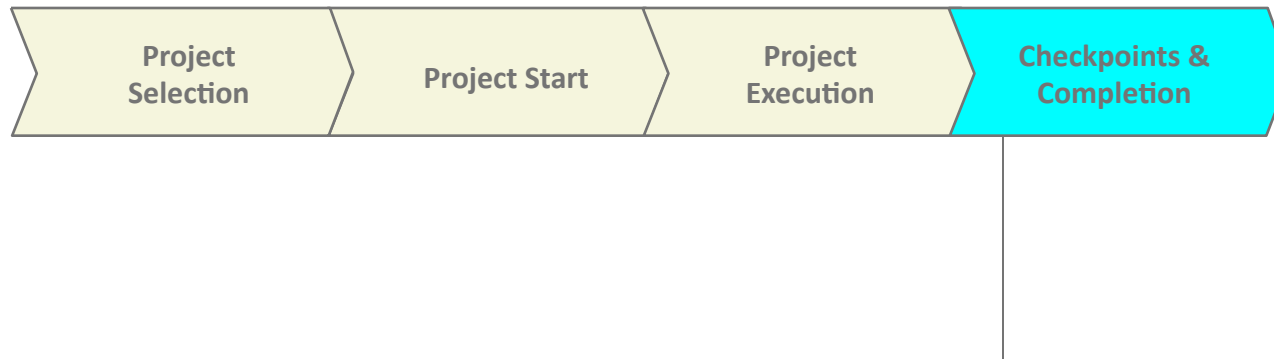| Project Selection | Project Start | Project Execution | Checkpoints & Completion |

- Create Project and Allocation in ALCF Management System

- Sign Institution-Level User Agreements, Foreign-National Access

- Appoint ALCF Catalyst

- Introduce Research Team to ALCF Team Members

- Review ALCF Service Offerings

- Discuss Areas of Potential Assistance and Collaboration

- "Getting Started" Workshop

ALCF Services - Execution

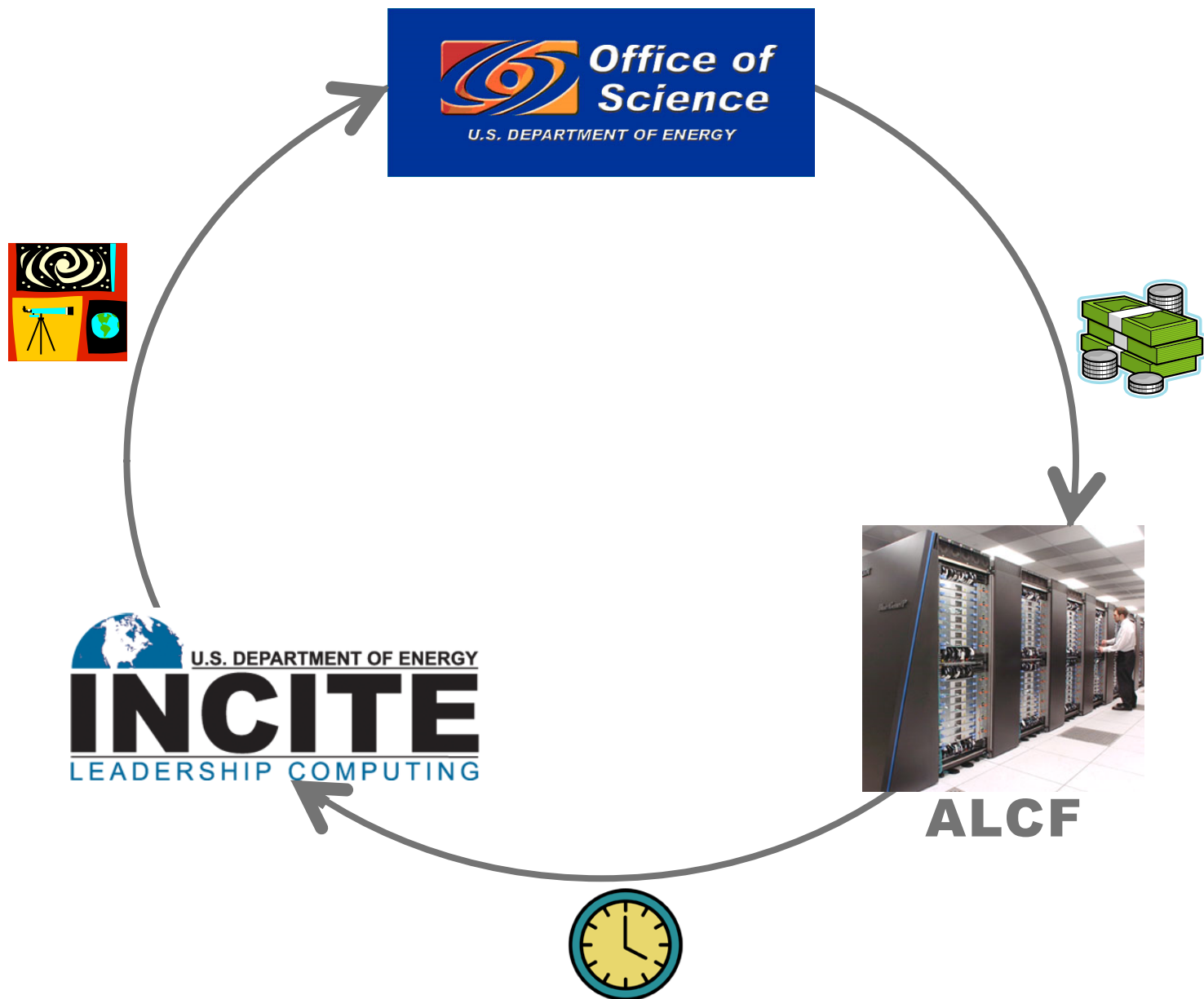| Project Selection | Project Start | Project Execution | Checkpoints & Completion |

- Collaboration with ALCF Computational Scientists to Develop Computation Strategy

- Collaboration with ALCF Application Performance Engineering and Data Analytics Specialists to Optimize Algorithms and Code

- Ongoing User Support and Tracking

- Workshops, INCITE User Calls, Training

- Host Visiting Scientists

ALCF Services – Checkpoints and Completion

Project Selection	Project Start	Project Execution	Checkpoints & Completion

- Gather Usage Statistics and Performance Data

- Monitor Allocation Usage and Planning for Next Award Cycle

- Complete Surveys and Report Significant Milestones

- Generate Regular Project Report for ALCF and DOE

- Highlight Work at DOE and SC Meetings

- Complete Project Close-Out and Archives of Data

ALCF

Reporting

Your Name Here!

- Quarterly Updates
  - 1st and 3rd Are Status Checks
  - 2nd and 4th (EOY) Are More Detailed
- Publications
  - Acknowledge DOE/ALCF and Send Us A Copy
- Highlights for DOE
  - Need Graphics, Photos, Images, Videos, Animations, …
  - For DoE Publications, Web Site, Presentations, SC

Partnership

Projects at ALCF Are A Partnership Between

- DOE: Direction, Funding and Oversight

- INCITE: Resource Allocations and Coordination

- Argonne: Compute Resources and Computational Science

- Science Projects: Domain Expertise and Complex Challenges